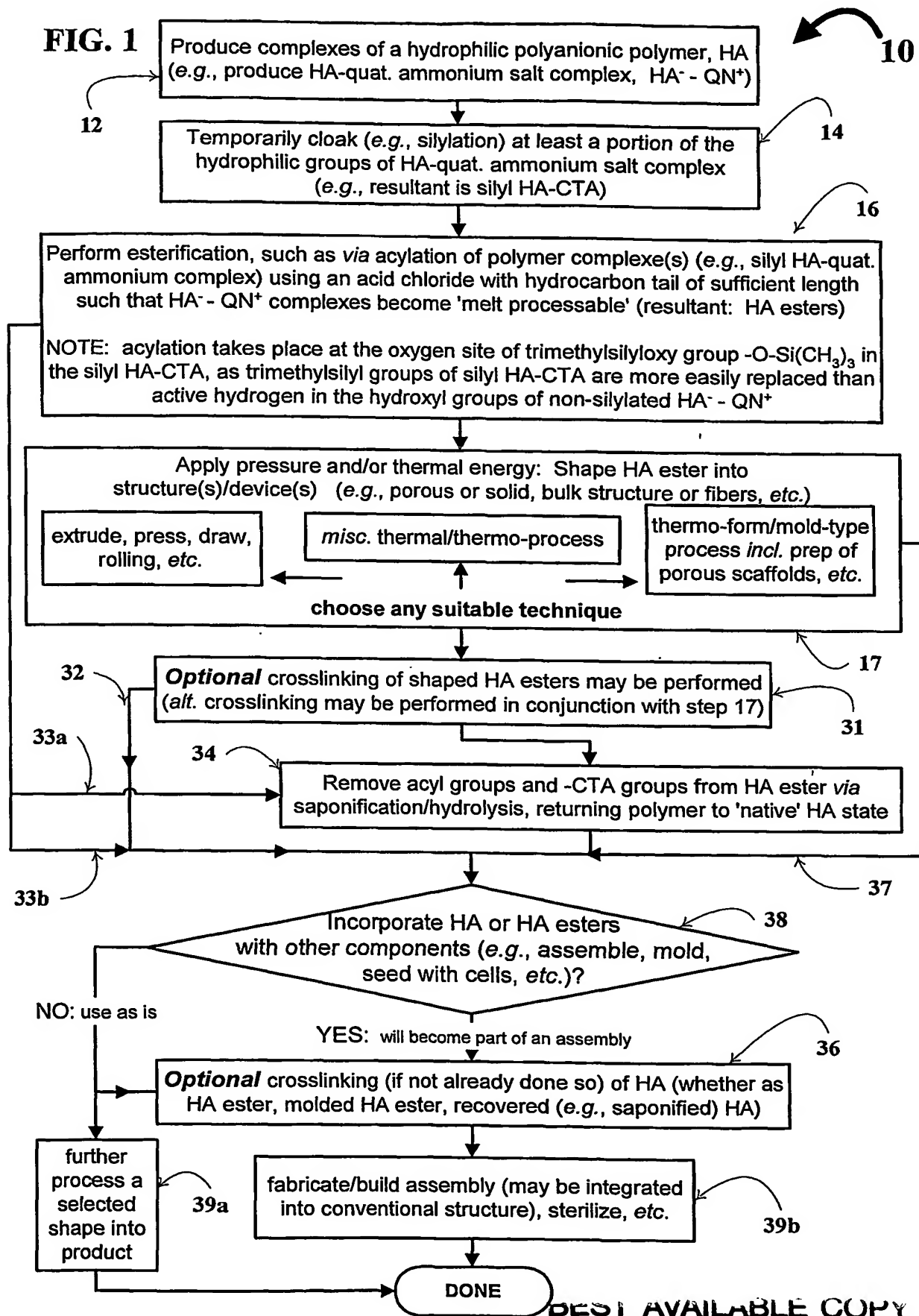


FIG. 1



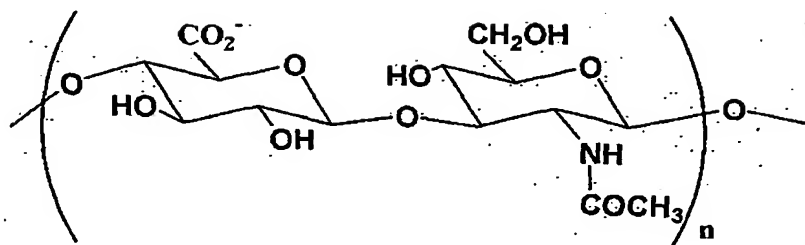


FIG. 2A

Hyaluronic Acid (Hyaluronan)

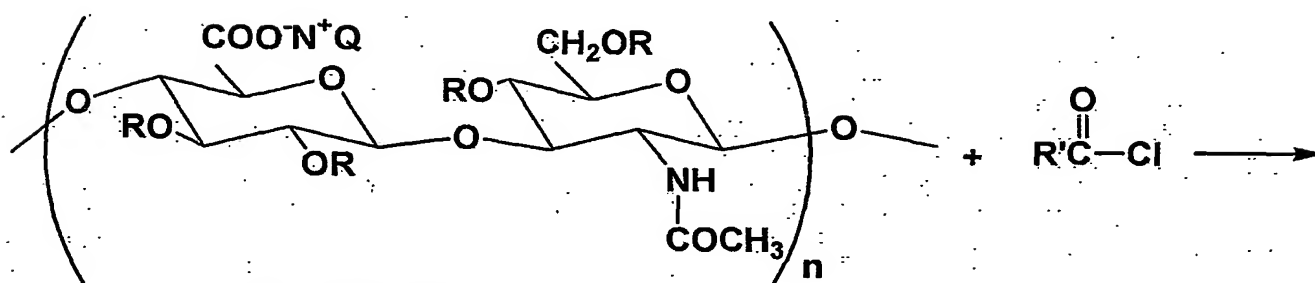


FIG. 2B

 $R = (\text{CH}_3)_3\text{Si} \text{ or } \text{H}$

where $R = \text{H}$, structure represents plain $\text{HA}^- \text{-QN}^+$ complex
 where $R = \text{Si}(\text{CH}_3)_3$, structure represents silylated $\text{HA}^- \text{-QN}^+$

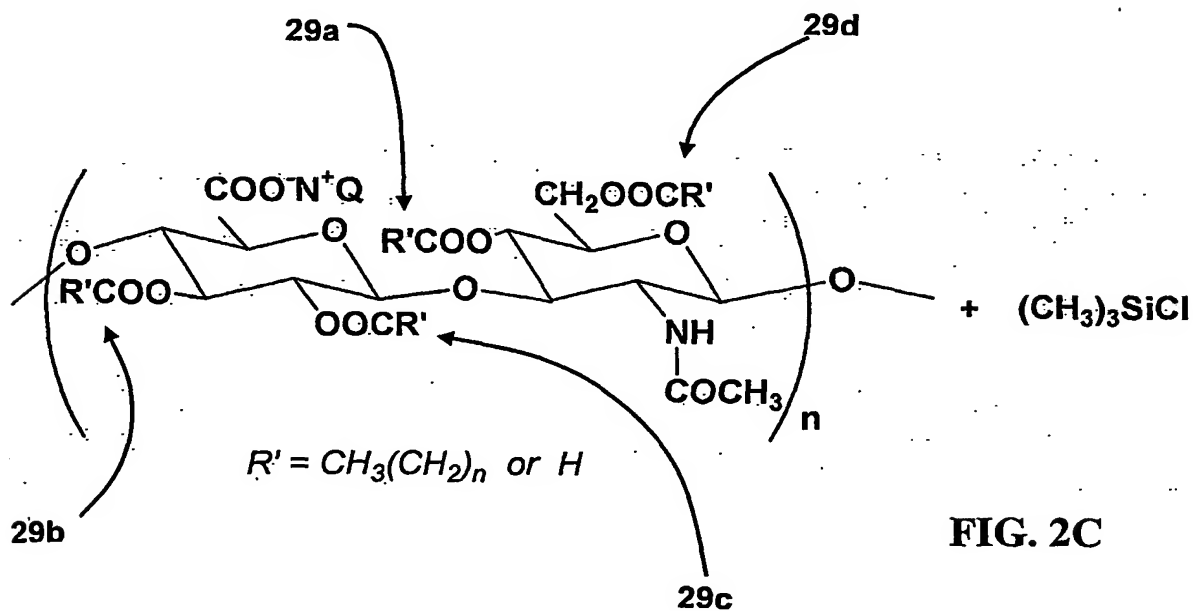


FIG. 2C

 $R' = \text{CH}_3(\text{CH}_2)_n \text{ or } \text{H}$

An acylated silylated $\text{HA}^- \text{-QN}^+$ complex structure,
 such that $\text{Si}(\text{CH}_3)_3$ groups now replaced with $\text{R}'\text{CO}$

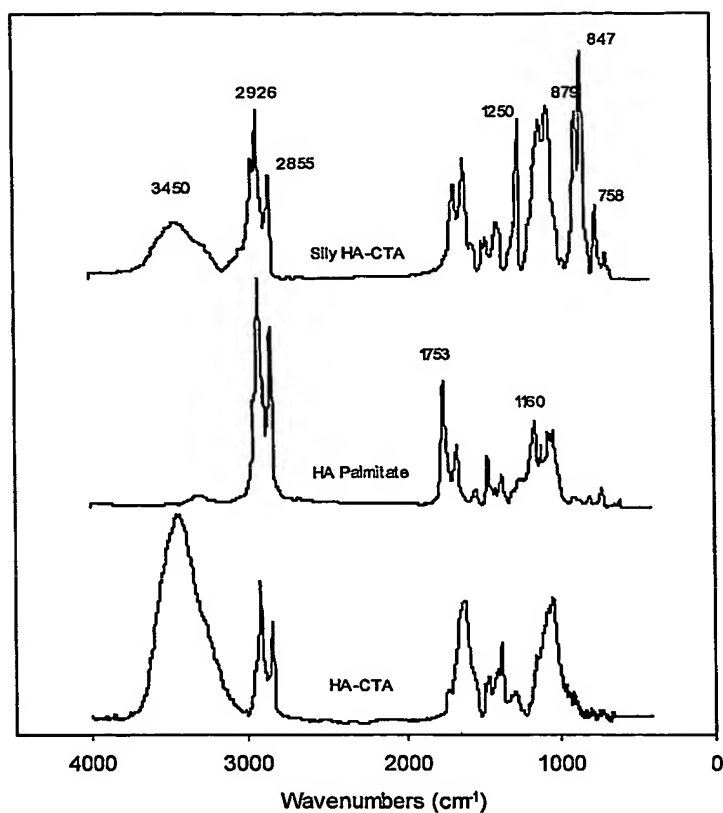


FIG. 3

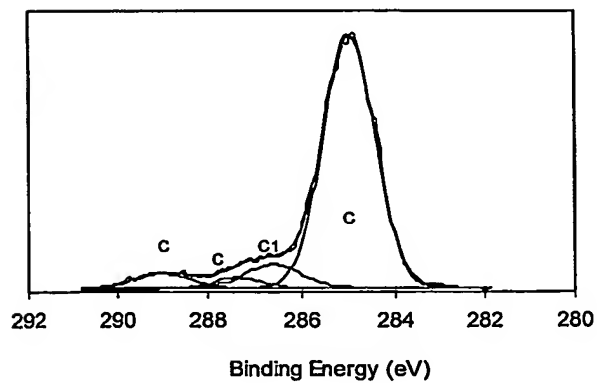


FIG. 4A

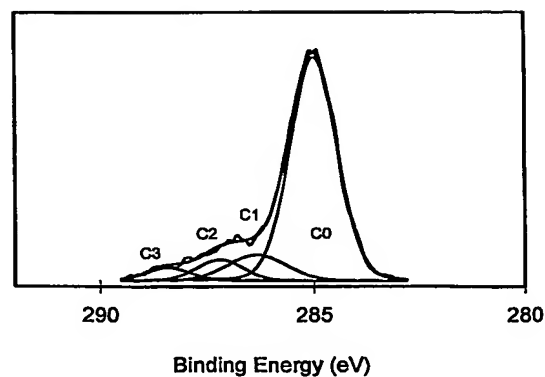


FIG. 4B

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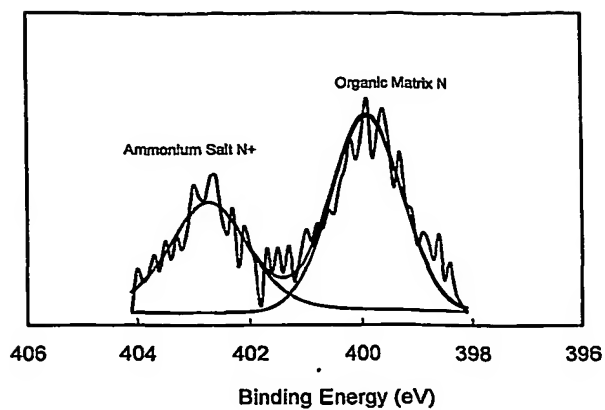


FIG. 5A

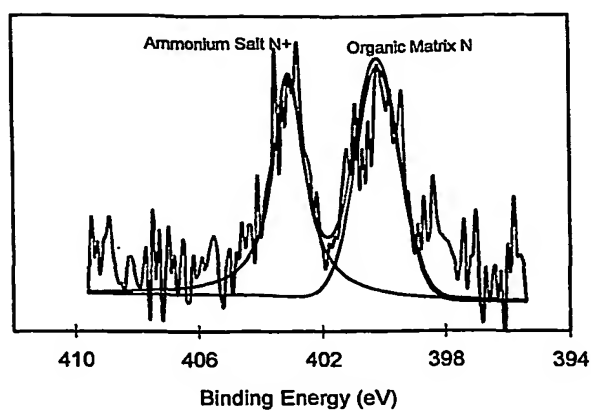


FIG. 5B

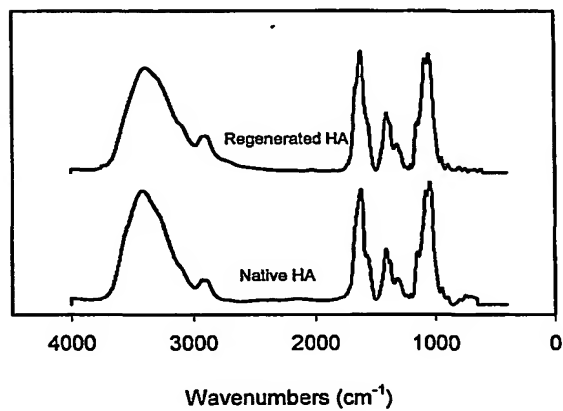


FIG. 6

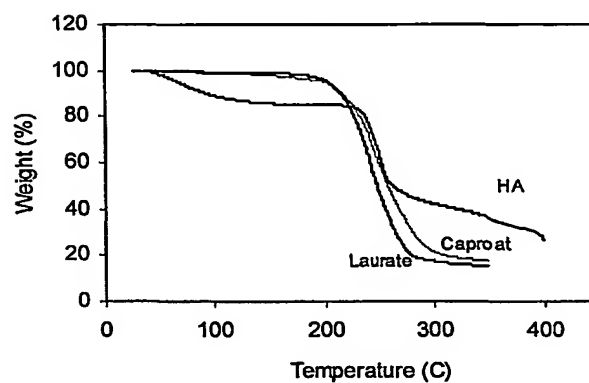


FIG. 7

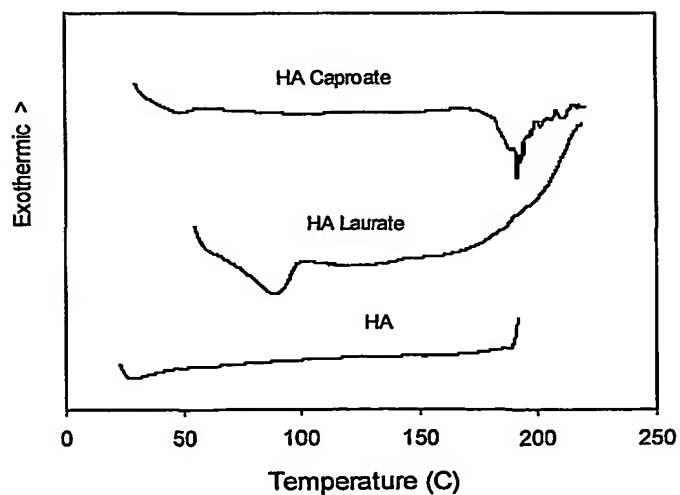


FIG. 8

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